

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims**

1. (Currently amended) A method, comprising:

sending a PDISC Extended Link Service frame from a first device to a second device,  
determining, by a first device, a possibility of an invalidation of a second device, wherein the  
first device is coupled to the second device via a fabric, and wherein the PDISC Extended Link  
Service frame is capable of determining a presence of the second device without disrupting I/O  
operations between the first device and the second device;

sending a query from the first device to validate the second device, in response to  
determining the possibility of the invalidation of the second device; and

receiving the PDISC Extended Link Service frame at the second device, and determining  
whether an initiator with the same port address but a different World Wide Port Name (WWPN)  
or World Wide Node Name (WWNN) than the first device is in a logged in state to the second  
device;

logging out the first device, and responding to the PDISC Extended Link Service frame  
with a LOGO frame, in response to determining that an initiator with the same port address but a  
different WWPN or WWNN than the first device is in a logged in state to the second device;

determining, at the second device, whether the first device is considered to be logged in  
to the second device, in response to determining that an initiator with the same port address but  
a different WWPN or WWNN than the first device is not in a logged in state to the second  
device;

accepting, by the second device, the PDISC Extended Link Service Frame, and sending  
an LS\_ACC frame indicating that the second device considers the first device to be logged in,  
wherein the LS\_ACC frame includes the WWNN and WWPN of the second device, in response  
to determining that the first device is considered to be logged in to the second device;

sending, by the second device, an LS\_RJT frame or a LOGO frame that includes an  
indication that the second device does not consider the first device to be logged in to the second  
device; and

determining, ~~[[at]]~~ by the first device, whether to continue the I/O operations from the first device to the second device based on receiving a response to the ~~query~~ PDISC Extended Link Service Frame within a time period, ~~wherein the method further comprises:~~

- ~~(i) receiving the query at the second device, prior to determining, at the first device, whether to continue I/O operations from the first device to the second device;~~
- ~~(ii) determining, at the second device, whether the first device is a valid initiator to the second device; and~~
- ~~(iii) sending the response from the second device, wherein the response indicates that the second device does not consider the first device to be logged in to the second device, in response to determining that the first device is not the valid initiator to the second device, wherein the second device uses a LOGO frame or a LS\_RJT frame.~~

2. (Currently amended) The method of claim 1, wherein ~~determining~~, by the first device, ~~the determines a possibility of [[the]] an~~ invalidation of the second device, ~~further comprises: by~~ determining whether the first device has received either a notification of a state change from the fabric or has timed out while waiting for a completion of an I/O operation sent from the first device to the second device.

3-4. (Canceled)

5. (Currently amended) The method of claim 1, further comprising:  
continuing the I/O operations, if the response to the ~~query~~ PDISC Extended Link Service frame within the time period is a frame that validates the World Wide Node Name and the World Wide Port name associated with a connection to the second device.

6. (Canceled)

7. (Currently amended) The method of claim 1, further comprising:

terminating a connection from the first device to the second device, if the response to the ~~query~~ PDISC Extended Link Service frame is not received within the time period or if the response is a frame that indicates that the second device does not consider the first device to be logged in to the second device.

8-11. (Canceled)

12. (Original) The method of claim 1, wherein the first and second devices are fibre channel adapters coupled to primary and secondary storage controllers respectively, wherein the fabric is a switched fabric, and wherein the fibre channel adapters communicate using extended link services commands.

13 – 36. (Canceled)

37. (New) The method of claim 1, wherein:  
if the response is the LS\_ACC frame, then:

- (i) the first device continues the I/O operations without interruption if the WWNN or WWPN in the LS\_ACC frame validates an identity of the second device; and
- (ii) the first device terminates a logged in state of the first device to the second device, aborts all open tasks, and attempts to reestablish paths, if the WWNN or WWPN in the LS\_ACC frame does not validate the identity of the second device.

38. (New) The method of claim 37, wherein:  
if the response is a LS\_RJT frame or a LOGO frame then the first device terminates the logged in state of the first device to the second device, aborts all open tasks, and attempts to reestablish paths.